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... of this wavelength in optical fibers, the interferometer(s) measuring ... distances as well as for entanglement-based quantum cryptography. ... [30] CH Bennett and SJ ...

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... and his colleagues in 1992 (Bennett et al ... Interferometric approaches to quantum cryptography originated with the two ... The two interferometers are assumed to have ...

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K Chen - Electronics Letters, 1998 - ieeexplore.ieee.org

... residue modulo n having Jacobi symbol $(2|n) = -1$... along exactly the same optical path, they reach ... Owing to this improved interferometer, reflections directly on ...

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[PDF] ► Recent Developments in Quantum Optics

JD Franson - JOHNS HOPKINS APL TECHNICAL DIGEST, 1995 - techdigest.jhuapl.edu

... dinat frame, for example, the x',y' coordinate frame: ... at APL 11 in which the two interferometers were separated by an optical path length of 100 ...

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... laser has to be greater than the path difference in one interferometer, and the ... photons, which can be used to implement quantum cryptography, although they ...

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... [8]. In this interferometer (see also ... are indistinguishable in all other respects for path differences smaller than their coherence length an increase ...

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... Once again we are faced with the problem of getting a small random sequence, a key of length 56 bits ... This is precisely what a quantum cryptography system does! ...

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... 1299 EKERT ET AL 'Practical quantum cryptography based on ... in a paper by CHBennett in Physical ... comprises an extended time-division Mach-Zehnder interferometer. ...

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... Thus, the interaction length between the input and output IDTs ... Interferometers of this type could form the basis of future quantum cryptography systems. ...

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... In the three-particle interferometer, however, if one assumes ... of these goes by the name of quantum cryptography. ... the paper by Charles Bennett and collaborators ...

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A Ekert, P Hayden, H Inamori - Arxiv preprint quant-ph/0011013, 2000 - Springer

... 4 From interferometers to computers ... 1) n (a is a binary string of length n) implies ...

This leads to interesting applications, quantum cryptography being one such ...

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... Quantum cryptography (QC) relies on the properties ... system implementing phase-encoded quantum key distribution. ... not require any path length control between the ...

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... To control their phases, the temperature can be varied ... The path length differences of both interferometers are equal with ... of around 33 Hz and quantum bit error ...

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... identical: same coupling ratios and same path length. ... still requires polarisation control in the ... a new phase encoding quantum cryptography system intrinsically ...

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... of the invention wherein the quantum channel is ... are almost equally affected by optical path length fluctuations in ... under control of the sender's control unit (1 ...

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... X. Zhang is with the Quantum Bridge Communications, Andover ... Because of their higher hardware/control complexity and ... count as the measure of path length (that is ...

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... [measurements, we changed the path-length difference in ... we demonstrate that quantum key distribution with photon ... does not require active polarization control. ...](#)

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... [complex refractive index is the key parameter in ... The real part determines optical path length and governs ... to use laser light for quantum control of reactions ...](#)

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... the interfering pulses travel the same path, the interferometer ... compensated for and no polarisation control is necessary ... a secret key of 20kbit length with an ...

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... in the two small interferometers are identical (to within the coherence length of the ... Indeed, because Alice and Bob can control the path length of their ...
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CH Bennett - US Patent 5,307,410, 1994 - [freepatentsonline.com](#)
... a single mode fiber of several km length, a few ... Controller-discriminator 64 couples a control signal over ... mechanical variations in the optical path lengths of ...
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... off by a shutter under the control of the ... rates in the two-photon interferometer experiment discussed above were measured with an optical path length of 102 m ...
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... measurements over >2700 km of the satellite path or a ... typically 500 µm) and f is
the telescope focal length. ... the same heat sink and temperature control system ...
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... Self-alignment and compensation of birefringence remain, while ... either of polarisation or path length in the ... introduced in 1997 an interferometer with Faraday ...

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... polarisation tracking, such a compensation could be ... identical: same coupling ratios and same path length. ... This interferometer does not require path alignment ...

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... interferometers incorporate equal path length differences, and ... active phase stabilization compensating small interferometric ... in Alice's interferometer as well ...

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... the two pulses take the same path, inside Bob in ... in any fibre, hence the auto-compensating interferometers worked well ... Fibre, Length (km), Key (kbit), R raw (...

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... shift drifts, and quantum information transmission ... auto-matic, passive compensation for the ... Its importance for long-path-length interferometry was immediately ...

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